



2040 MTP and Climate Change Scenario Planning Project Workshop Summary

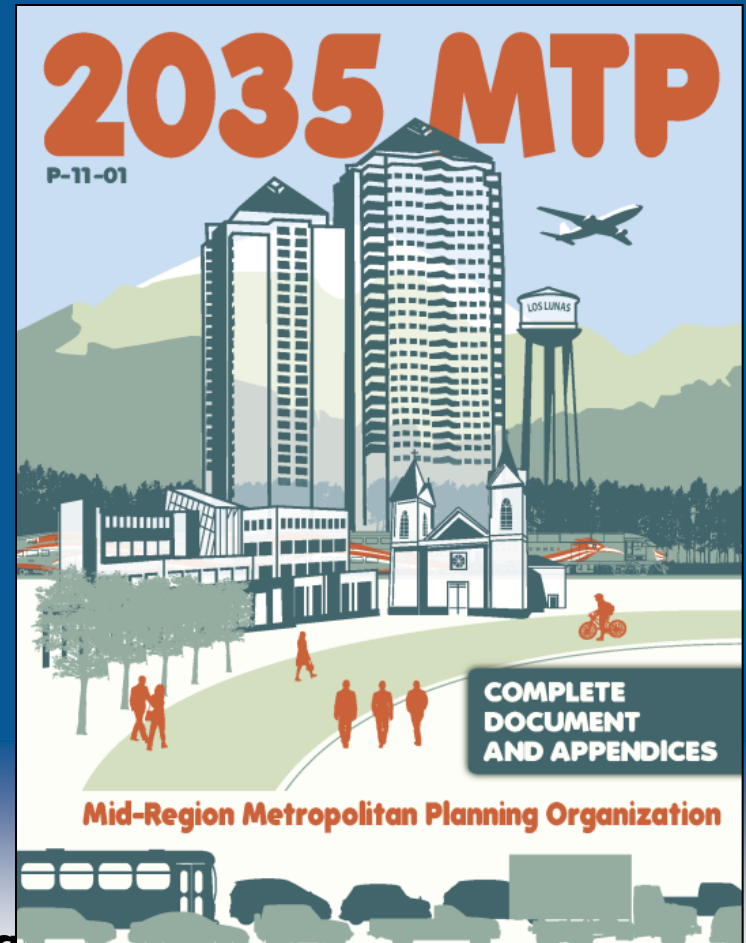
July 10, 2014



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Metropolitan Transportation Plan

- ◆ Long-range (20+ years) multi-modal transportation plan for the Albuquerque metro area
- ◆ Updated every 4 years (current update → April 2015)
- ◆ Projections of growth/development
- ◆ List of all anticipated transportation projects in the region



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MTP Questions

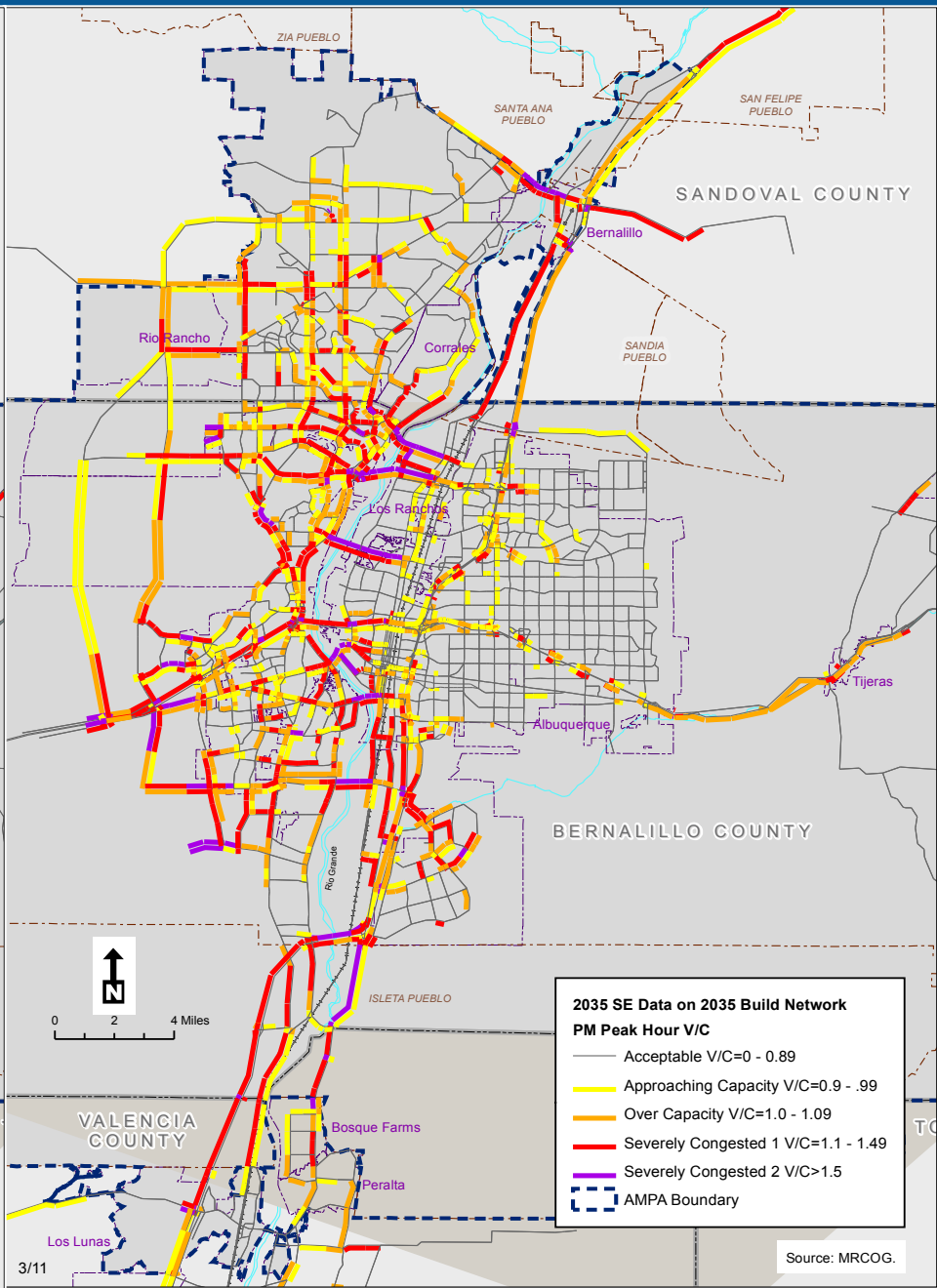
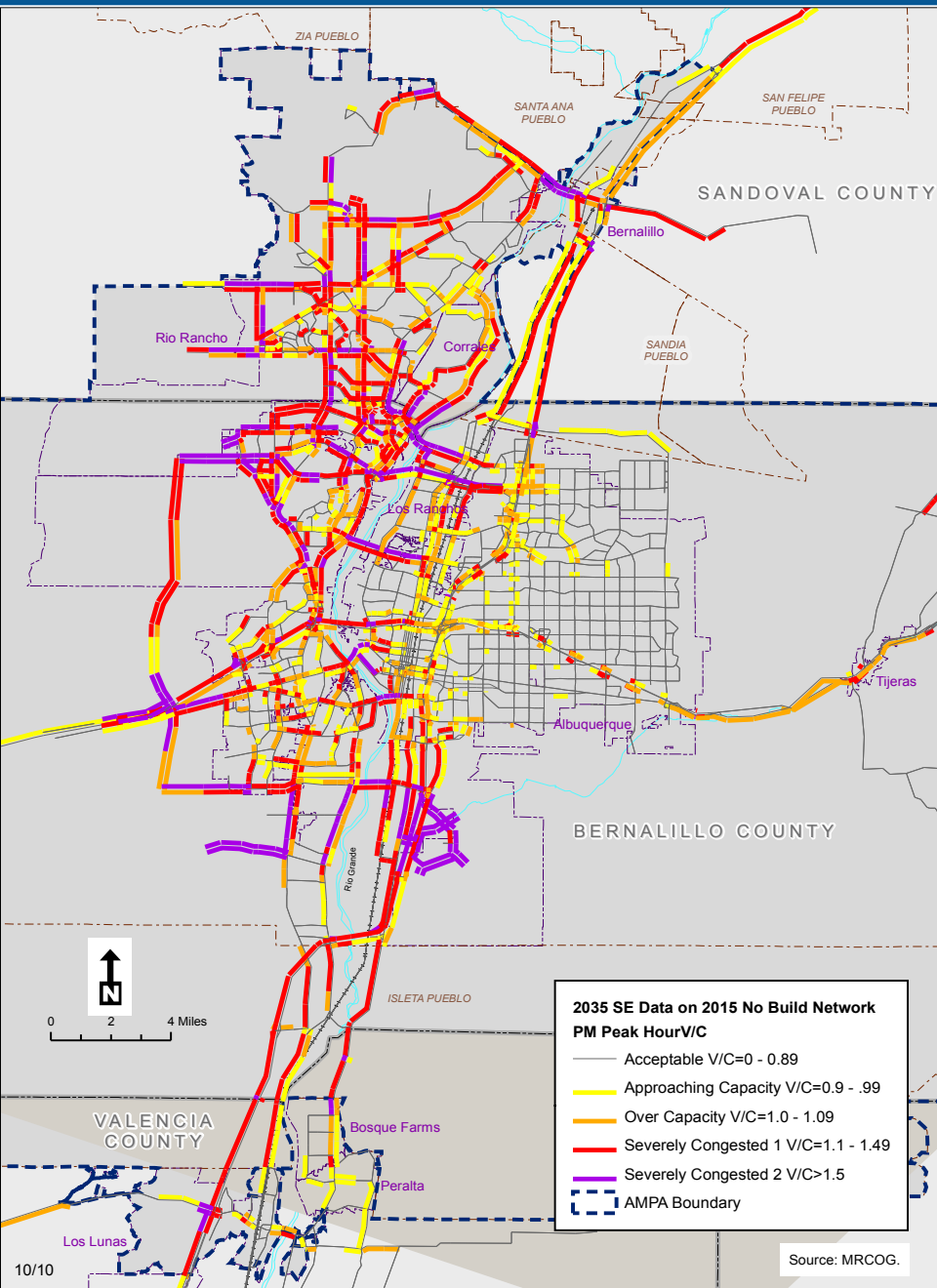
- ◆ Can our transportation infrastructure handle the projected growth?
- ◆ What roles should different modes play?
- ◆ What types of strategies and investments should we pursue?
- ◆ How much money is available?
- ◆ What are the impacts on air quality and other basic environmental factors?



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2035 No-Build

2035 Build



Key Findings from 2035 MTP

- ◆ River crossing congestion is a critical issue, and no new bridges have been proposed
- ◆ Building our way out of congestion is not realistic
- ◆ There is no silver bullet. A variety of strategies will be necessary to tackle congestion.
- ◆ There is a critical link between land use patterns and transportation conditions

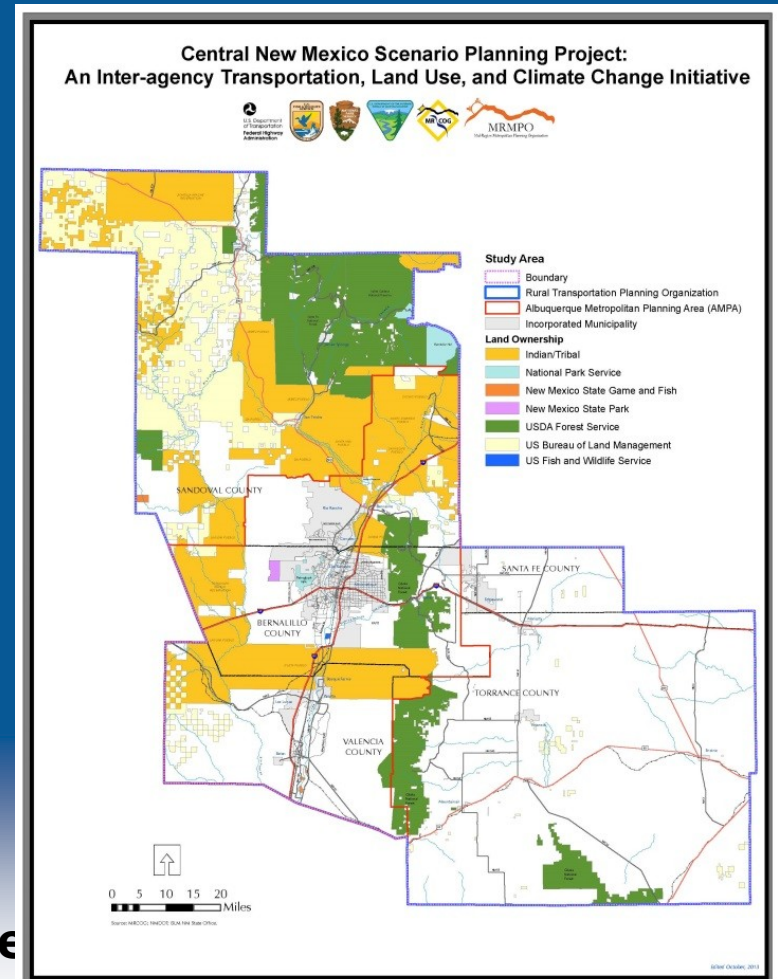


Central New Mexico Climate Change Scenario Planning Project

- ◆ Funded by FHWA and other federal partners
- ◆ Participation of US DOT Volpe Center
- ◆ Partnership with federal land management agencies
- ◆ Introduce climate change analysis into long-range planning process



Mid-Range



Central New Mexico Climate Change Scenario Planning Project

◆ Climate futures

- ◆ Temperature
- ◆ Precipitation levels

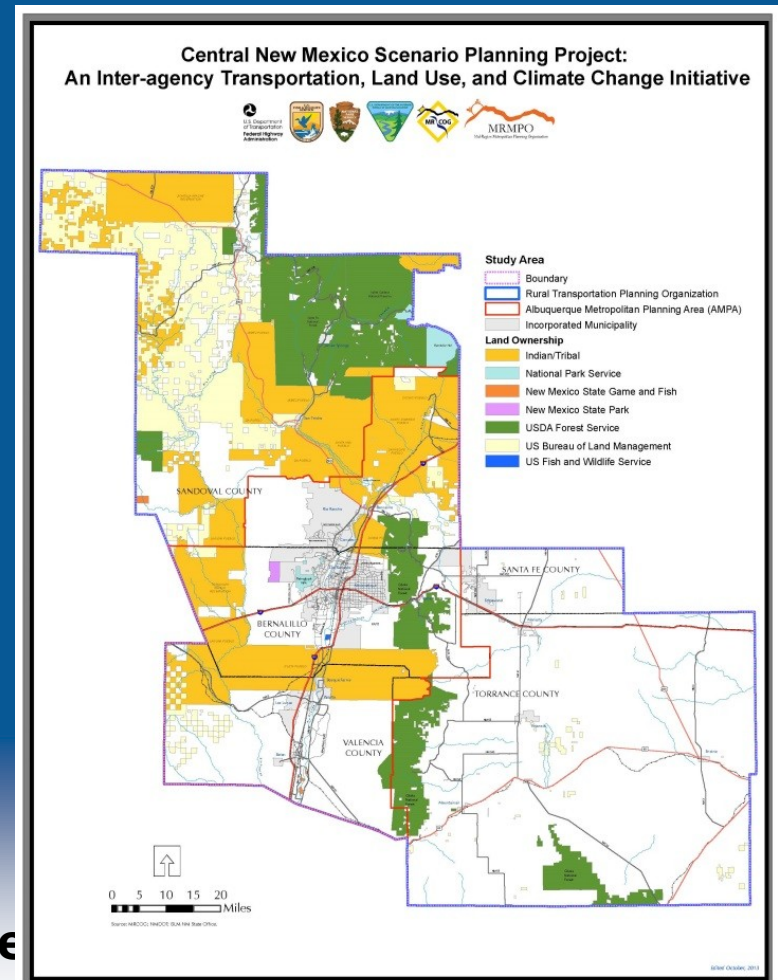
◆ Climate change impacts on central New Mexico

- ◆ Will we get hotter and drier?
- ◆ What happens to our water supply?
- ◆ Droughts? Wildfires? Flooding?

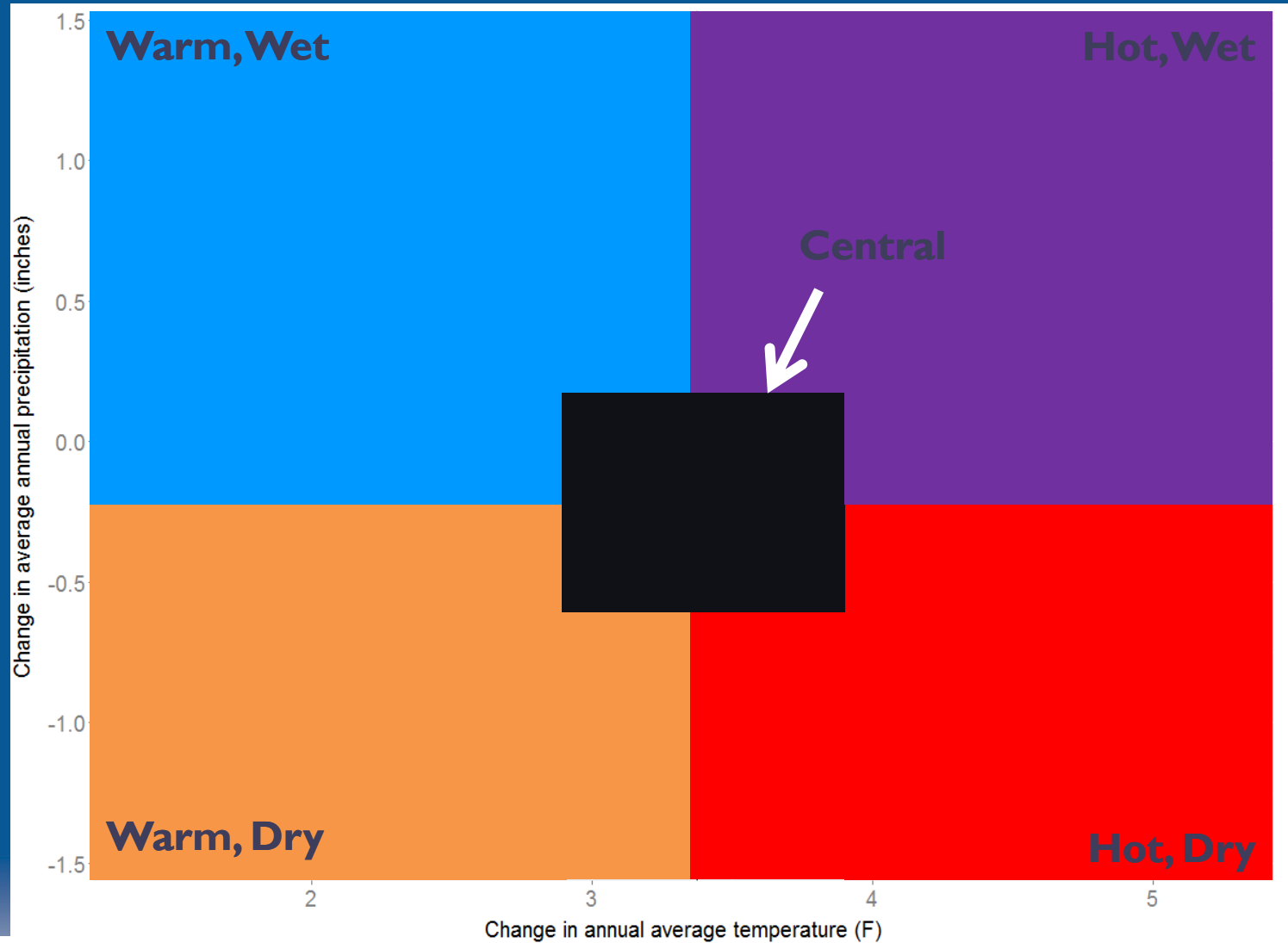
◆ Consider whether development patterns make us more or less resilient to climate impacts



Mid-Res



Projected Changes in Climate Means - 2040



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Big Picture Climate Implications

- ❑ Greater changes in temperature than in precipitation
- ❑ Projected **2.4 °F to 4.3 °F increase in annual temperature**
- ❑ Projected **-13% decrease to +10% increase in annual precipitation**
(Bureau of Reclamation)
- ❑ More pronounced temperature increases in the summer
- ❑ More drought regardless of precipitation due to the increased evaporation from higher temperature
- ❑ More, longer heat waves
- ❑ More extreme, variable precipitation events



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Implications for the Region

❑ Transportation-related

- Higher maintenance costs (e.g., faster pavement deterioration)
- Construction and operations implications (e.g., shorter construction season)
- More damage from extreme events (e.g., flash floods, wildfires, and landslides)

❑ Land Use/Regional Planning

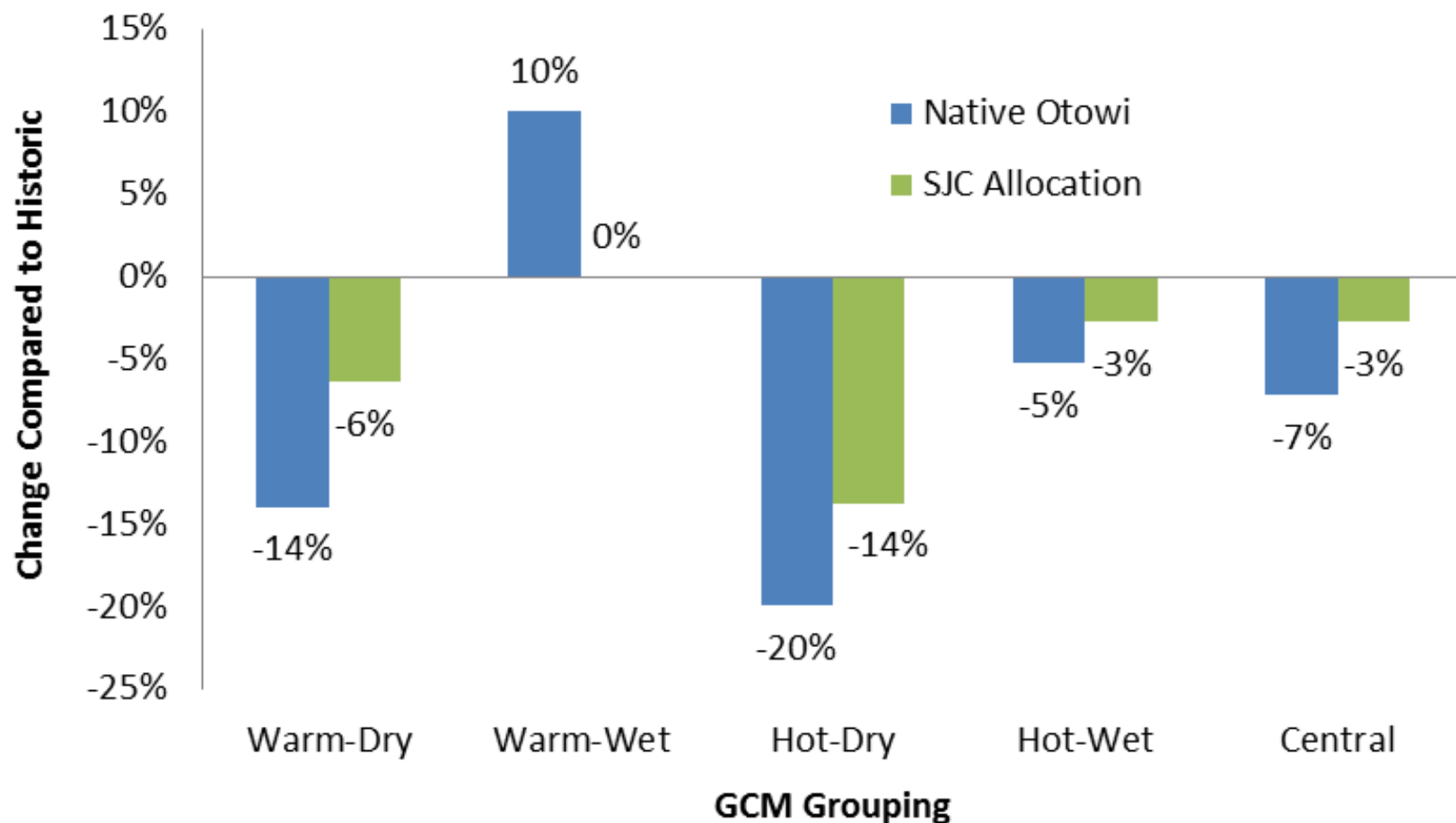
- More frequent water shortages
- Greater power demand
- Higher vulnerability for development near riparian areas/on the urban-wildland interface



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Water Availability in ABQ Area: 2040

Native (at Otowi) and SJC Water Availability in Rio Grande 2040 Compared to Historic by GCM Grouping



Water Availability in 2100

According to the Upper Rio Grande Impact Assessment:

- ◆ Rio Grande flows decrease by $\frac{1}{3}$
- ◆ San Juan-Chama flows decrease by $\frac{1}{4}$



Futures 2040 MTP

- ◆ December 2014 – Draft MTP for public comment
- ◆ January 2015 – Public meetings
- ◆ January/February 2015 – Identify projects to receive federal funding
- ◆ March 2015 – Final draft for public review
- ◆ April 2015 – Plan approval by Metropolitan Transportation Board



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